Contents

Editorial		ix
Preface		xi
Foreword — A Late Entry into Visual Physiology		xiii
Some Publications of A. L. Hodgkin		xix
Chapter 1.	**Neurotransmitter Systems in the Turtle Retina** R. WEILER, A. K. BALL and J. AMMERMÜLLER	1
Chapter 2.	**Signal Transmission and Adaptation - Induced Modulation of Photoreceptor Synapses in the Retina** S. M. WU	27
Chapter 3.	**Molecular Aspects of Development of Mammalian Optic Cup and Formation of Retinal Cell Types** C. J. BARNSTABLE	45
Chapter 4.	***In Oculo* Transplantation Studies Involving the Neural Retina and its Pigment Epithelium** J. R. BLAIR, V. GAUR, T. W. LAEDTKE, L. LI, Y. LIU, H. SHEEDLO, K. YAMAGUCHI, K. YAMAGUCHI and J. E. TURNER	69
Chapter 5.	**Organization and Development of the Primate Photoreceptor Mosaic** C. A. CURCIO and A. E. HENDRICKSON	89
Chapter 6.	**Negative Components of the Electroretinogram from Proximal Retina and Photoreceptor** R. H. STEINBERG, L. J. FRISHMAN and P. A. SIEVING	121
Chapter 7.	**New Insights into the Visual Cycle** R. R. RANDO, P. S. BERNSTEIN and R. J. BARRY	161
Chapter 8.	**Retinal-Binding Protein: Function in a Chromophore Exchange System in the Squid Visual Cell** T. HARA and R. HARA	179
Chapter 9.	**Structure, Composition and Function of the Retinal Interphotoreceptor Matrix** G. S. HAGEMAN and L. V. JOHNSON	207
Chapter 10.	**Improved Methodology for Cell Culture of Human and Monkey Retinal Pigment Epithelium** B. A. PFEFFER	251

Chapter 11. **Retinitis Pigmentosa and its Models** 293
M. J. VOADEN

Chapter 12. **Regulation of Retinal Functions by Octopaminergic Efferent Neurons in *Limulus*** 333
B.-A. BATTELLE

Subject Index 357

Contents of Previous Volumes 367